



Amendment under 37 C.F.R. § 1.111
Serial No.: 10/798,320
SUGHRUE MION, PLLC Ref: Q80353

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A high speed tool steel comprising, by mass percentage, a basic composition of a 0.4-0.9% of C; an equal to or less than 1.0% of Si; an equal to or less than 1.0% of Mn; a 4-6% of Cr; a 1.5-6% in total of either or both of W and Mo in the form of $(1/2W + Mo)$ wherein the amount of W is not more than 3%; and, a 0.5-3% in total of either or both of V and Nb in the form of $(V + Nb)$, wherein an average grain size of precipitated carbides dispersed in the matrix of the steel is equal to or less than $0.5 \mu m$ and a dispersion density of the carbides is equal to or more than 80×10^3 particles/mm², wherein the tool steel is formed by an ingot casting process.

Claim 2 (original): The high speed tool steel as set forth in claim 1, wherein an Ni content is equal to or less than 1 % by mass percentage.

Claim 3 (original): The high speed tool steel as set forth in claim 1, wherein a Co content is equal to or less than 5 % by mass percentage.

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Claim 4 (original): The high speed tool steel as set forth in claim 1, wherein an Ni content is equal to or less than 1 % by mass percentage, and a Co content is equal to or less than 5 % by mass percentage.

Claims 5-10: (canceled).